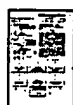




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JP5068580A2: HIGHER CHITOSAN OLIGOSACCHARIDE AND ITS PRODUCTION

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Country: **JP Japan**

Kind:

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Issued/Filed Dates: **March 23, 1993 / Sept. 13, 1991**

Application Number: **JP1991000310275**

IPC Class: **C12P 19/26; B01D 61/14;**

Abstract: **Purpose:** To obtain the subject oligosaccharide useful as medicines, cosmetics, etc., in high yield by carrying out chitosan hydrolyzing reaction with a chitosan hydrolase in an ultrafilter, then removing the produced chitosan oligosaccharide to the outside of the ultrafilter, supplying a chitosan solution and repeating the reaction.
Constitution: Chitosan hydrolyzing reaction with an enzyme having the chitosan hydrolyzing activity is carried out in an ultrafilter having a membrane permeability regulated so that 40wt.% higher chitosan oligosaccharide which is a penta- to octadecasaccharide can be contained in a mixture of the chitosan oligosaccharide permeating the membrane to produce a chitosan oligosaccharide mixture containing the chitosan oligosaccharide. The resultant chitosan oligosaccharide mixture is then removed to the outside of the ultrafilter. A chitosan solution corresponding to the amount of the removed mixture is fed into the ultrafilter. The chitosan hydrolyzing reaction, removal of the chitosan oligosaccharide mixture and feed of the chitosan solution are then continuously carried out to afford the objective higher chitosan oligosaccharide.
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Other Abstract Info: **CHEMABS 119(01)007333V CAN119(01)007333V DERABS C93-136903
DERC93-136903**

Foreign References: **(No patents reference this one)**

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